(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 24 June 2004 (24.06.2004)

PCT

(10) International Publication Number WO 2004/053908 A1

(51) International Patent Classification7:

H01H 13/70

(21) International Application Number:

PCT/EP2003/050963

(22) International Filing Date: 8 December 2003 (08.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

02102706.5

9 December 2002 (09.12.2002) EP

(71) Applicant (for all designated States except US): IEE IN-

(71) Applicant (for all designated States except US): IEE IN-TERNATIONAL ELECTRONICS & ENGINEERING S.A. [LU/LU]; Zone Industrielle, 6468 Echternach (LU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CHABACH, Driss [LU/LU]; 16, An Heirich, 9676 Noertrange (LU). SCHLEEH, Thomas [DE/DE]; Am Kreuzchen, 16, 54293 Trier (DE). BIECK, Werner [DE/DE]; Auf Probert, 25, 54459 Wiltingen (DE). (74) Agents: BEISSEL, Jean et al.; Office Ernest T. Freylinger S.A., B.P. 48, 8001 Strassen (LU).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

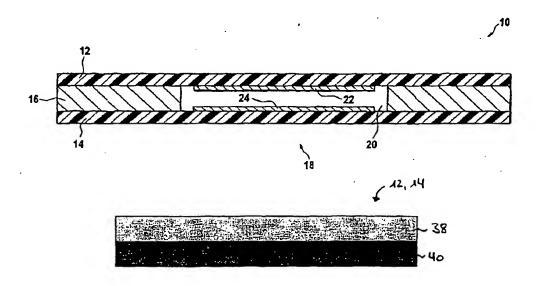
(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FOIL-TYPE SWITCHING ELEMENT WITH MULTI-LAYERED CARRIER FOIL



(57) Abstract: A foil-type switching element comprises a first carrier foil and a second carrier foil arranged at a certain distance from each other by means of a spacer, said spacer comprising at least one recess defining an active area of the switching element. At least two electrodes are arranged in the active area of the switching element between said first and second carrier foils in such a way that, in response to a pressure acting on the active area of the switching element, the first and second carrier foils are pressed together against the reaction force of the elastic carrier foils and an electrical contact is established between the at least two electrodes. According to the invention, at least one of said carrier foils comprises a multi-layered configuration with at least two layers of different materials.

2004/053908 A1 IIIII